

OPTICAL COMMUNICATION SYSTEM

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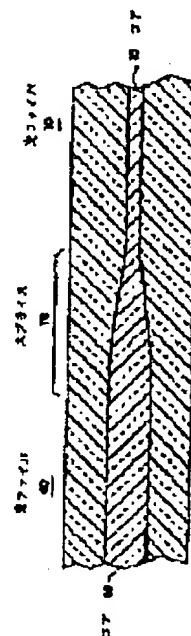
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Abstract of JP4253003

PURPOSE: To provide an optical communication system with the little optical loss of a splice area in signal wave length even when optical fibers with different core sizes are connected by fusion splicing. **CONSTITUTION:** The two optical fibers 10 and 40 with the different core sizes are connected by the fusion splicing 70. The fiber 40 with the large core is a communication fiber and the fiber 10 with the small core is an amplifier fiber which is doped by an erbium. A taper area is formed in the neighborhood of the splice. The optical fiber 40 increases its diameter within a taper area in a part near the splice. Shrinkage is not substantially caused in the taper area.



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